

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 1.28**WELDING INSPECTION REPORT****Resident Engineer:** Casey, William**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-028608**Date Inspected:** 19-Oct-2012**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1730**Contractor:** American Bridge/Fluor Enterprises, a JV**Location:** Job Site**CWI Name:** See below.**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** OBG**Summary of Items Observed:**

Quality Assurance Inspector (QA) Fritz Belford was at the American Bridge/Fluor (ABF) job site at Yerba Buena Island in California between the times noted above in order to monitor Quality Control functions and the in process work being performed by ABF personnel. The following items were observed:

OBG 12W

Welder Chris Bruce #8901:

Welder was observed performing weld repairs on weld 12W W2.1-A1, on Ultrasonic Testing Shear Wave (UTSW) rejected indications noted by QC Inspectors at Y locations 11810, 12580 & 12855 between panel points 113.5 & 114. Welder was observed utilizing Caltrans approved Welding Procedure Specification's (WPS) ABF-WPS-D15-1000R Rev.2 for Shielded Metal Arc Welding (SMAW). He was observed preheating the welds prior to Carbon Arc Gouging and welding. Other welding parameters as inspected by QC Inspector John Hays appear to be in compliance with the WPS noted above.

**Non-Destructive Testing (NDT)**

This QA performed Visual, Magnetic Particle and Ultrasonic Testing on the following:

Panel Point 12W PP113.5 W2.1:

- Weld BW1 (640mm x 14mm Thick, Accept.)
- Weld BW2 (1420mm x 14mm Thick, VT Reject)
- Weld BW3 (210mm x 14mm Thick, Accept)
- Weld PS1 (160mm x 16mm Thick, UT Reject)

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## WELDING INSPECTION REPORT

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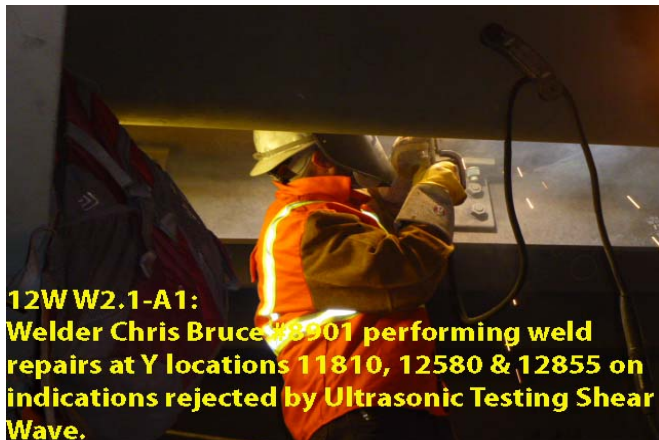
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- Weld PS2 (60mm x 14mm Thick, Accept)
- Weld PS3 (120mm x 20mm Thick, Accept)

This QA Inspector completed the appropriate report form on this date noting items acceptance or rejection as per applicable code. The completed and accepted work observed at this location appeared to be in compliance with the contract specifications.

This QA observed QC Inspector John Hays performing various Non-Destructive Testing (NDT) on welds and weld repairs as they become available for testing. Non-Destructive Testing methods utilized by the QC Inspector were Visual Testing (VT), Magnetic Particle Testing (MPT) and Ultrasonic Testing Shear Wave (UTSW). QC Inspector was observed accepting and rejecting welds per applicable code and or contract criteria.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.



### Summary of Conversations:

Conversations relevant to work performed on this date.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Gary Thomas - (916) 764 - 6027, who represents the Office of Structural Materials for your project.

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**Inspected By:** Belford,Fritz

Quality Assurance Inspector

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**Reviewed By:** Reyes,Danny

QA Reviewer